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*Office Memorandum* • UNITED STATES GOVERNMENT

TO : Chief, Scientific Applications Division, DATE: SPD-M-70-0614  
OCS 22 APR 1970

FROM : Chief, Special Programs Division, OC

SUBJECT: Request for Support in Developing an Interactive  
Analysis Capability

1. Some of the present day analog signal analysis techniques employed by OC-SPD are rapidly becoming antiquated by state-of-the-art digital software and hardware developments in the area of waveform analysis. Several of the aforementioned developments are available within the Agency through OCS/SAD. Incorporating these in-house assets into an analysis system would insure the future improvement of our present high level of analytical competence.

2. We request the assistance of OCS/SAD in a joint effort to determine the operational feasibility of developing an interactive analysis system. Such a system, if developed, would permit the analyst and the computer to work reciprocally, allowing maximum intervention and manipulation of complex waveforms by the analyst. This request is the result of several informal discussions between OCS/SAD and OC-SPD personnel which suggested that such a system is conceptually feasible.

3. A joint effort in developing this system will be beneficial to both parties. OC-SPD personnel will become proficient in the use of sophisticated digital analysis techniques and equipments and OCS/SAD will be better informed as to the types of signal analysis problems confronting OC-SPD.

4. The main body of this effort is the implementation of a data manipulation software system which will efficiently interface existing analytical software with existing hardware display devices. The final product will be an interactive analysis position that can be completely controlled by the technical signal analyst and will be run on the OCS computers at Headquarters.

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5. As presently envisioned an expenditure of approximately eighty man-hours per month from both components will be more than sufficient. Higher priority tasks within each component will take precedence over this effort.

6. A brief outline of the desired analytical capabilities of the interactive analysis position, as presently envisioned, is attached.



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Att  
Outline

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